

Accepted Manuscript

Title: Use of ion pair amphiphile as an alternative of natural phospholipids in enhancing the stability and anticancer activity of oleanolic acid loaded nanostructured lipid carriers

Authors: Gourab Karmakar, Prasant Nahak, Biplab Roy, Pritam Guha, Koji Tsuchiya, Kanjiro Torigoe, Ranendu Kumar Nath, Amiya Kumar Panda



PII: S0927-7757(18)30128-6
DOI: <https://doi.org/10.1016/j.colsurfa.2018.02.039>
Reference: COLSUA 22291

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 20-12-2017
Revised date: 15-2-2018
Accepted date: 16-2-2018

Please cite this article as: Karmakar G, Nahak P, Roy B, Guha P, Tsuchiya K, Torigoe K, Nath RK, Panda AK, Use of ion pair amphiphile as an alternative of natural phospholipids in enhancing the stability and anticancer activity of oleanolic acid loaded nanostructured lipid carriers, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2018), <https://doi.org/10.1016/j.colsurfa.2018.02.039>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Use of ion pair amphiphile as an alternative of natural phospholipids in enhancing the stability and anticancer activity of oleanolic acid loaded nanostructured lipid carriers

Gourab Karmakar¹, Prasant Nahak¹, Biplab Roy¹, Pritam Guha¹, Koji Tsuchiya³, Kanjiro Torigoe³, Ranendu Kumar Nath⁴, Amiya Kumar Panda^{5,*}

¹*Department of Chemistry, University of North Bengal, Darjeeling – 734013, West Bengal, India*

¹*Department of Biotechnology, University of North Bengal, Darjeeling – 734013, West Bengal, India*

³*Department of Pure and Applied Chemistry, Tokyo University of Science, 2641Yamazaki, Noda, Tokyo 278-8510, Japan*

⁴*Department of Chemistry, Tripura University, Suryamaninagar–799022, Tripura, India*

¹*Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore-721102, West Bengal, India*

Author for correspondence:

Dr. Amiya Kumar Panda
Department of Chemistry and Chemical Technology
Vidyasagar University
Midnapore – 721 102
West Bengal, India
Phone: +919433347210
Fax: +91322275329/297
Email: akpanda@mail.vidyasagar.ac.in

Download English Version:

<https://daneshyari.com/en/article/6977555>

Download Persian Version:

<https://daneshyari.com/article/6977555>

[Daneshyari.com](https://daneshyari.com)